

UNITED STATES GOVERNMENT

Memorandum

25X1A5a1

TO : The Files: [REDACTED]

DATE: 28 February 1963

FROM : [REDACTED]

25X1A9a

SUBJECT: Trip Report - Development of the RT-49 and RP/A-49
[REDACTED]

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1. Project Description:

[REDACTED]

2. Contractual Information:

- a. Initial Cost: [REDACTED] 25X1A5a1
b. Initiation Date: 15 June 1962
c. Completion Date: 31 March 1963
d. Deliverable Items: 6 each RT-49 Service Test Models
6 each RP-49 Service Test Models
6 each RP/A-49 Service Test Models
15 each plus 1 each Reproducible Operating
Instruction and Maintenance Manuals
1 set plus 1 set Reproducible Production
Drawings
1 set Production Tools
5 each Monthly Progress Reports
5 each Final Reports

3. Date of Meeting: 18 February 1963

4. Place of Meeting: [REDACTED]

5. Persons Attending:

Agency

Non-Agency

25X1A9a [REDACTED]

[REDACTED] 25X1A5a1

SUBJECT: Development of the RT-49 and RP/A-49 with [REDACTED]

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6. Contractor's Performance:

- a. On Schedule and Expected to Remain So: No
- b. Within Obligated Funds and Expected to Remain So: No
- c. Satisfactory Technical Progress: Yes

7. Project Status:

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The contractor has delivered two RT-49 transmitters and one RP-49 power supply. One of the transmitters and the power supply are considered engineering lab models and were not subjected to an analysis and appraisal. The transmitter delivered on 25 January has been sent to the OC-E/R&D Laboratory for evaluation. [REDACTED] has finished a third transmitter, but will hold this unit until approval has been received on the second unit.

The second RP-49 is being fabricated and is scheduled to be delivered on or before 8 March. A breadboard model of this power supply had been set up for this visit and [REDACTED] was able to demonstrate a circuit which will provide overload protection without the use of fuses or circuit breakers. This circuit uses semiconductor sensing devices and a relay and will reset itself when the cause for an overload condition has been removed.

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The RP/A-49 is still in the breadboard stage without a useable circuit. [REDACTED] has promised to have a working circuit by 28 February. If a satisfactory circuit has not been developed by 28 February, it will be recommended that the RP/A-49 project be removed from [REDACTED] or that a new approach be made to the AC power supply requirement.

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The RT-49 20 watt feasibility transmitter has enjoyed a successful change from PT-657 transistors to PT-1623. This unit is being optimized on band 3 (12-24 mcs) and has been found to function well out to 27 mcs. A tune-up key is being added to the transmitter which will reduce the amount of drive to the output stage and prevent transistor burn out when the transmitter is not matched to the load. After tuning the antenna matching network, the regular key may be used. [REDACTED] expects to deliver this unit on or before 22 February.

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[REDACTED] will submit a letter to the contract officer requesting additional funds and an extension of time for this program.

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